CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-11-02-05** **Date: 03-11-17**
Customer	:	Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	02-11-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.3	_
2	Finess by Air permeablity method (m^2/kg, Min)	278.5	225m^2/kg, Min
3	Density (gm/cc)	3.1	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-11-02-05** **Date: 30-11-17**
Customer	:	Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-05/01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	02-11-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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Quality Manager

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-02-05** **Date: 04-11-17**
Customer	:	Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-05/02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	254	254	1.7	98.3	90-100
3	20 mm	5466	5720	38.1	61.9	30-70
4	10 mm	4600	10320	68.8	31.2	10-35
5	4.75 mm	4325	14645	97.6	2.4	0-5
6	Pan	355	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-02-05** **Date: 04-11-17**

Sample ID No : 2017-11-02-05/02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.7	_
4	Bulk Density(Loose) (Kg/l)	1.47	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.23	_

Note:
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Quality Manager

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-11-02-05** **Date: 04-11-17**
Customer	:	Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer Reference	:	BBMP/EE/BTP/WO/217/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-11-17
Sample ID No	:	2017-11-02-05/02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	02-11-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	254	254	5.1	94.9	90-100
3	10 mm	2554	2808	56.2	43.8	25-55
4	4.75 mm	1860	4668	93.4	6.6	0-10
5	Pan	332	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-11-02-05** **Date: 04-11-17**

Sample ID No : 2017-11-02-05/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.68	_
4	Bulk Density(Loose) (Kg/l)	1.54	_
5	Bulk Density(Compacted) (Kg/l)	1.58	_
6	Water Absorption(%)	0.22	_
7	Aggregate crushing Value(%)	23.4	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Authorized Signature
Quality Manager

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CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-02-05** **Date: 04-11-17**

Customer : Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/217/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 02-11-17

Sample ID No : 2017-11-02-05/03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 02-11-17

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	82	82	8.2	91.8	90-100	90-100	90-100	95-100
3	2.36 mm	144	226	22.6	77.4	60-95	75-100	85-100	95-100
4	1.18 mm	156	382	38.2	61.8	30-70	55-90	75-100	90-100
5	600 micron	179	561	56.1	43.9	15-34	35-59	60-79	80-100
6	300 micron	188	749	74.9	25.1	5-20	8-30	12-40	15-50
7	150 micron	156	905	90.5	9.5	0-10	0-10	0-10	0-15
8	Pan	95	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-11-02-05** **Date: 04-11-17**

Sample ID No : 2017-11-02-05/03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.4	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	5.6	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

Note:
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Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-13-03** **Date: 14/11/2017**

Customer : Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/217/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-11-17

Sample ID No : 2017-11-13-03/01

Customer ID : M20 Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 14/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	07/11/2017	14/11/2017	150.22 X 150.34 X 150.35	22584	8.244	388.4	17.2	17.5
2	M20 Concrete	M20	07/11/2017	14/11/2017	150.30 X 150.34 X 150.35	22596	8.345	393.2	17.4	
3	M20 Concrete	M20	07/11/2017	14/11/2017	150.37 X 150.38 X 150.39	22613	8.366	402.5	17.8	

Note:

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Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-13-03** **Date: 17/11/2017**

Customer : Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/217/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-11-17

Sample ID No : 2017-11-13-03/02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 17/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	10/11/2017	17/11/2017	150.22 X 150.34 X 150.35	22584	8.244	289.1	12.8	13.2
2	PCC	M15	10/11/2017	17/11/2017	150.30 X 150.34 X 150.35	22596	8.345	298.3	13.2	
3	PCC	M15	10/11/2017	17/11/2017	150.37 X 150.38 X 150.39	22613	8.366	307.5	13.6	

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Quality Manager

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CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-11-13-03** **Date: 18/11/2017**

Customer : Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/217/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-11-17

Sample ID No : 2017-11-13-03/03

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/11/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M20	11/11/2017	18/11/2017	150.22 X 150.34 X 150.35	22584	8.244	413.3	18.3	18.2
2	Cement Concrete Pavement	M20	11/11/2017	18/11/2017	150.30 X 150.34 X 150.35	22596	8.345	418.0	18.5	
3	Cement Concrete Pavement	M20	11/11/2017	18/11/2017	150.37 X 150.38 X 150.39	22613	8.366	404.8	17.9	

Note:

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CP/TF/01

TEST RESULTS OF STEEL

Lab ID	:	**CP-2017-11-03-02** **Date: 05-11-17**
Customer	:	Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-11-17
Sample ID No	:	2017-11-03-02/01
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	04-11-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	550	678	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	569	687	20.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.888	579	692	19.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2017-11-03-02** **Date: 07-11-17**

Customer : Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.

Agency : Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.

Customer's Reference : BBMP/EE/BTP/WO/217/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-11-17

Sample ID No : 2017-11-03-02/02

Sample Type /Size : Precast Cover Slab (100mm Thick)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 03/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.53	100.49	1.216	4480	82.9	18.5	17.2	21.5
2	Cover Slab-2	75.47	100.47	1.222	4473	82.1	18.4	17.1	21.3
3	Cover Slab-3	75.46	100.49	1.208	4471	82.5	18.5	17.2	21.4

Note:

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2017-11-03-02** **Date: 07-11-17**
Customer	:	Assistant Executive Engineer,Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements Drain and Construction of Culverts at Kuvempunagar 1st stage and Surroundings Area in Ward No.11 (Kuvempunagar) in Vidyaranyapura Sub Division.
Agency	:	Sri.N.LokanathReddy, No:05, 1st Main, 7th B Cross, Kaverinagara 'A' Block, Kavalbyrasandra, Bangalore-560 032.
Customer's Reference	:	BBMP/EE/BTP/WO/217/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	03-11-17
Sample ID No	:	2017-11-03-02/03
Sample Type /Size	:	Precast Cover Slab (250mm Thick)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	03/11/2017

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(mm)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	150.46	250.47	2.716	17777	392.4	22.1	22.1	27.6
2	Cover Slab-2	150.40	250.44	2.522	17762	388.5	21.9	21.9	27.3
3	Cover Slab-3	150.48	250.45	2.408	17781	389.5	21.9	21.9	27.4

Note:

The results pertain to the samples received and tested.
All information furnished by the Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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